

CLAIM AMENDMENTS

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- 2 1. (Currently Amended) A method comprising:
3 ~~receiving a video data stream comprising a plurality of portions;~~
4 ~~performing a scaling operation on the video data stream to produce a~~
5 ~~plurality of scaled portions wherein the scaling operation comprises a scaling ratio; and~~
6 ~~varying a density of scaled portions stored in the memory wherein the~~
7 ~~density is related to the scaling ratio.~~
8 scaling a first portion and a second portion of image information to
9 provide a scaled first portion and a scaled second portion, wherein unscaled said first
10 portion would substantially fill a first memory area; and
11 storing said scaled first portion and said scaled second portion in said first
12 memory area.

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- 2 2. (Currently Amended) The method of claim 1, further comprising:
3 accessing a ~~the~~ scaled first or second portion from the first memory area;
4 retrieving a data sample from the scaled portion; and
5 using the data sample in a second scaling operation.

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- 2 3. (Currently Amended) The method of claim 1, further comprising:
3 dividing ~~the~~ a memory into a plurality of lines;
4 identifying a line; and
5 storing a number of scaled portions in the line, wherein scaling the first
6 portion and the second portion is based on a scaling ratio, and the number is related to the
 scaled scaling ratio.

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- 2 4. (Currently Amended) A system comprising:
3 a memory comprising a number of bytes;
4 a scaler ~~for performing to perform~~ a scaling operation, the scaling
 operation identifiable by a scaling ratio, wherein the scaler ~~receives a data stream~~

5 comprising a plurality of portions and produces a plurality of scaled portions; scales a
6 first portion and a second portion of image information to provide a scaled first portion
7 and a scaled second portion, and unscaled said first portion would substantially fill a first
8 memory area; and

9 a memory controller coupled to the memory ~~for storing an amount of~~
10 ~~scaled portions in the memory, wherein the amount corresponds to the scaling ratio to~~
11 ~~store said scaled first portion and said scaled second portion in said first memory area.~~

1 5. (Currently Amended) The system of claim 4, wherein the ~~data-stream~~
2 image information is a video data stream.
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2 6. (Currently Amended) The system of claim 5, wherein the ~~video-data~~
3 ~~stream~~ image information comprises a plurality of frames and each frame comprises a
4 predetermined number of bytes.

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2 7. (Original) The system of claim 6, wherein the number of bytes in the
memory is smaller than the predetermined number of bytes.

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2 8. (Original) The system of claim 4, wherein the scaling operation is a
horizontal scaling operation.

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2 9. (Amended) The system of claim 4, further comprising:
3 a second scaler ~~for performing~~ to perform a second scaling operation,
identifiable by a second scaling ratio.

1 10. (Original) The system of claim 9, wherein the second scaling ratio is
2 identical to the first scaling ratio.

1 11. (Original) The system of claim 9, wherein the second scaling
2 operation is a vertical scaling operation.

1 12. (Original) The system of claim 9, further comprising:
2 a scaling control unit coupled to the second scaler, wherein the second
3 scaler further comprises a finite impulse response filter including a plurality of
4 coefficients and the scaling control unit changes the amount of coefficients in the filter in
5 relation to the scaling ratio.

1 13. (Original) The system of claim 12, wherein the scaling control unit
2 further comprises a look-up table including coefficient values for changing the amount of
3 coefficients.

1 14. (Original) The system of claim 4, further comprising a first-in-first-
2 out memory.

1 15. (Original) The system of claim 4, wherein the memory is an on-chip
2 memory.

1 16. (Currently Amended) An article comprising a medium storing instructions
2 that, if executed, enable a processor-based system to:
3 receive a video data stream comprising a plurality of portions;

4 perform a scaling operation on the video data stream to produce a scaled
5 video data stream, wherein the scaling operation comprises a scaling ratio; and
6 vary a density of the scaled video data stream stored in the memory
7 wherein the density is related to the scaling ratio.

8 scale a first portion and a second portion of image information to provide
9 a scaled first portion and a scaled second portion, wherein unscaled said first portion
10 would substantially fill a first memory area; and
11 store said scaled first portion and said scaled second portion in said first
12 memory area.

1 17. (Currently Amended) The article of claim 16, further storing instructions
2 that, if executed, enable a processor-based system to:
3 access a the scaled first or second portion from the first memory area;
4 retrieve a data sample from the scaled portion; and
5 use the data sample in a second scaling operation.

1 18. (Currently Amended) The article of claim 16, further storing instructions
2 that, if executed, enable a processor-based system to:
3 divide ~~the~~ a memory into a plurality of lines;
4 identify a line of the plurality of lines; and
5 store a number of scaled portions in the line, wherein scaling the first
6 portion and the second portion is based on a scaling ratio, and the number is related to the
7 scaling ratio.